

AMENDMENTS TO THE CLAIMS

Upon entry of the present amendment, the status of the claims will be as shown below. This listing of claims replaces all previous versions and listings of claims in the present patent application.

Listing of Claims

1. (Currently Amended) A program execution apparatus ~~device~~ that executes a program, said program execution apparatus ~~device~~ comprising:

a first program selector ~~selection-unit~~ operable to select, as a program to be executed, a program which is downloaded to a storage and executed;

a program monitor ~~monitoring-unit~~ operable to monitor an operational state of a currently executed program;

a second program selector ~~selection-unit~~ operable to select, as a program to be executed, a program that is of the same type as the currently executed program, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~;

a processor ~~an execution-unit~~ operable to execute the program selected by said first program selector ~~selection-unit~~ and, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~, to execute the program selected by said second program selector ~~selection-unit~~;

a cause obtainer ~~obtainment-unit~~ operable to obtain a cause of the abnormal termination of the program detected by said program monitor ~~monitoring-unit~~; and

a countermeasure executioner ~~execution-unit~~ operable to execute a countermeasure based on the cause of the abnormal termination,

wherein said processor ~~execution-unit~~ is operable to execute the program selected by said second program selector ~~selection-unit~~, after the countermeasure is executed by said countermeasure executioner ~~execution-unit~~.

2. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1, wherein said second program selector ~~selection-unit~~ is operable to select, as the program to be executed, a program which is different from the program selected by said first program selector ~~selection-unit~~.

3. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1, wherein said second program selector ~~selection-unit~~ is operable to select, as the program to be executed, a program which is the same as the program selected by said first program selector ~~selection-unit~~.

4. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1, wherein said second program selector ~~selection-unit~~ is operable to select, as the program to be executed:

a program which is the same as the program selected by said first program selector ~~selection-unit~~, in the case where a predetermined condition is not satisfied; and

a program which is different from the program selected by said first program selector ~~selection-unit~~, in the case where the predetermined condition is satisfied.

5. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 4, wherein said second program selector ~~selection-unit~~ is operable to perform selection in the case where the predetermined condition is whether or not the number of abnormal terminations of the program which said program monitor ~~monitoring-unit~~ has detected as having abnormally terminated exceeds a predetermined number, and to determine that:

the predetermined condition is not satisfied in the case where the number of abnormal terminations of the program does not exceed the predetermined number; and

the predetermined condition is satisfied in the case where the number of abnormal terminations of the program exceeds the predetermined number.

6. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 4, wherein said second program selector ~~selection-unit~~ is operable to perform selection in the case where the predetermined condition is whether or not the number of times a program to be selected has been selected exceeds a predetermined number, and to determine that:

the predetermined condition is not satisfied in the case where the number of times the program has been selected does not exceed the predetermined number; and

the predetermined condition has been satisfied in the case where the number of times the program is selected exceeds the predetermined number.

7. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 4, wherein said second program selector ~~selection-unit~~ is operable to perform selection under an assumption that time information is the predetermined condition.

8. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 4, wherein said second program selector ~~selection-unit~~ is operable to perform selection under an assumption that:

the predetermined condition is whether or not an instruction from a user is received;

the predetermined condition is not satisfied in the case where the instruction from the user is not received; and

the predetermined condition is satisfied in the case where the instruction from the user is received.

9. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1, wherein said second program selector ~~selection-unit~~ is operable to select, as the program to be executed, a program in a non-volatile memory.

10. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein one of said first program selector ~~selection-unit~~ and said second program selector ~~selection-unit~~ is operable to select, as the program to be executed, a program that can be acquired via a network.

11. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein one of said first program selector ~~selection-unit~~ and said second program selector ~~selection-unit~~ is operable to select, as the program to be executed, a program that is included in a broadcast wave.

12. (Cancelled)

13. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein said program monitor ~~monitoring-unit~~ is operable, upon detecting abnormal termination of the currently executed program, to present an occurrence of the abnormal termination to a user.

14. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein said program monitor ~~monitoring-unit~~ is operable to present the abnormal termination occurrence to a user, using an LED display.

15. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein said program monitor ~~monitoring-unit~~ is operable to present the abnormal termination occurrence to a user, using a display on a display screen.

16. (Currently Amended) A program execution apparatus device that executes a program, said program execution apparatus device comprising:

a first program selector ~~selection-unit~~ operable to select, as a program to be executed, a program which is downloaded to a storage and executed;

a program monitor ~~monitoring-unit~~ operable to monitor an operational state of a currently executed program;

a second program selector ~~selection-unit~~ operable to select, based on an instruction from a user, a program that is of the same type as the currently executed program, as a program to be executed, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~; and

a processor ~~an execution-unit~~ operable to execute the program selected by said first program selector ~~selection-unit~~ and, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~, to execute the program selected by said second program selector ~~selection-unit~~.

17. (Currently Amended) The program execution apparatus device according to Claim 16,

wherein said second program selector ~~selection-unit~~ is operable to present selectable program candidates, and to select a program selected by the user, as the program to be executed.

18. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 17,

wherein said second program selector ~~selection-unit~~ is operable to present, as the selectable program candidates, at least a program in a non-volatile memory.

19. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 17,

wherein said second program selector ~~selection-unit~~ is operable to present, as the selectable program candidates, at least a program that can be acquired via a network.

20. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 17,

wherein said second program selector ~~selection-unit~~ is operable to present, as the selectable program candidates, at least a program that is included in a broadcast wave.

21. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 17,

wherein said second program selector ~~selection-unit~~ is operable to select a predetermined program, as the program, in the case where the user does not make a selection within a predetermined time.

22. (Currently Amended) A program execution apparatus device that executes a program, said program execution apparatus device comprising:

a first program selector ~~selection-unit~~ operable to select, as a program to be executed, a program which is downloaded to a storage and executed;

a program monitor ~~monitoring-unit~~ operable to monitor an operational state of a currently executed program;

a second program selector ~~selection-unit~~ operable to select, as a program to be executed, a program that is of the same type as the currently executed program and which accepts a channel selection request from a user and performs an operation, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~; and

a processor ~~an execution-unit~~ operable to execute the program selected by said first program selector ~~selection-unit~~ and, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~, to execute the program selected by said second program selector ~~selection-unit~~.

23. (Currently Amended) A program execution apparatus device that executes a program, said program execution apparatus device comprising:

a first program selector ~~selection-unit~~ operable to select, as a program to be executed, a program which is downloaded to a storage and executed;

a program monitor ~~monitoring-unit~~ operable to monitor an operational state of a currently executed program;

a second program selector ~~selection-unit~~ operable to select, as a program to be executed, a program that is of the same type as the currently executed program and which displays an

electronic program guide, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~; and

a processor ~~an execution-unit~~ operable to execute the program selected by said first program selector ~~selection-unit~~ and, in the case where abnormal termination of the currently executed program is detected by said program monitor ~~monitoring-unit~~, to execute the program selected by said second program selector ~~selection-unit~~.

24. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 1,

wherein said program monitor ~~monitoring-unit~~ is operable to store information regarding the program which said program monitor ~~monitoring-unit~~ has detected as having abnormally terminated.

25. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 24,

wherein said program monitor ~~monitoring-unit~~ is operable to store the information in a removable recording medium.

26. (Currently Amended) The program execution apparatus ~~device~~ according to Claim 24,

wherein said program monitor ~~monitoring-unit~~ is operable to transmit the information to an external destination.

27. (Currently Amended) A program execution method, comprising:

~~a first program selection step of first program~~ selecting, as a program to be executed, a program which is downloaded to a storage and then executed;

~~a program monitoring step of program~~ monitoring an operational state of a currently executed program;

~~a second program selection step of second program~~ selecting, as a program to be executed, a program that is of the same type as the currently executed program, in the case where abnormal termination of the currently executed program is detected in said program monitoring step; and

~~an execution step of executing, by a processor, the program selected in one of said first program selecting ~~program selection step~~ and said second program selecting ~~program selection step~~~~

~~a cause obtainment step of obtaining a cause of the abnormal termination of the program detected in said program monitoring step; and~~

~~a countermeasure execution step of executing a countermeasure based on the cause of the abnormal termination,~~

wherein, ~~in said execution step~~, the program selected in said second program selecting ~~program selection step~~ is executed after the countermeasure is executed ~~in said countermeasure execution step~~.

28. (Currently Amended) A non-transitory recording medium in which a program for executing an execution program is stored, the program causing a computer to execute:

~~a first program selection step of~~ first program selecting, as an execution program to be executed, an execution program which is downloaded and then executed;

~~a program monitoring step of~~ program monitoring an operational state of a currently executed execution program;

~~a second program selection step of~~ second program selecting, as an execution program to be executed, an execution program that is of the same type as the currently executed execution program, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~;

~~an execution step of~~ executing the execution program selected in one of said first program selecting ~~program selection step~~ and said second program selecting ~~program selection step~~;

~~a cause obtainment step of~~ obtaining a cause of the abnormal termination of the execution program detected in said program monitoring ~~step~~; and

~~a countermeasure execution step of~~ executing a countermeasure based on the cause of the abnormal termination,

wherein, ~~in said execution step~~, the execution program selected in said second program selecting ~~program selection step~~ is executed after the countermeasure is executed ~~in said countermeasure execution step~~.

29. (Currently Amended) A program execution method, comprising:

~~a first program selection step of first program~~ selecting, as a program to be executed, a program which is downloaded to a storage and then executed;

~~a program monitoring step of program~~ monitoring an operational state of a currently executed program;

~~a second program selection step of second program~~ selecting, based on an instruction from a user, a program that is of the same type as the currently executed program, as a program to be executed, in the case where abnormal termination of the currently executed program is detected in said program monitoring step; and

~~an execution step of executing, by a processor, the program selected in said first program selecting selection step~~ and, in the case where abnormal termination of the currently executed program is detected in said program monitoring step, to execute the program selected in said second program selecting selection step.

30. (Currently Amended) A non-transitory recording medium in which a program for executing an execution program is stored, the program causing a computer to execute:

~~a first program selection step of first program~~ selecting, as an execution program to be executed, an execution program which is downloaded and then executed;

~~a program monitoring step of program~~ monitoring an operational state of a currently executed execution program;

~~a second program selection step of second program~~ selecting, based on an instruction from a user, an execution program that is of the same type as the currently executed execution

program, as an execution program to be executed, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~; and

~~an execution step of~~ executing the execution program selected in said first program ~~selecting selection step~~ and, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~, to execute the execution program selected in said second program ~~selecting selection step~~.

31. (Currently Amended) A program execution method, comprising:

~~a first program selection step of~~ first program selecting, as a program to be executed, a program which is downloaded to a storage and then executed;

~~a program monitoring step of~~ program monitoring an operational state of a currently executed program;

~~a second program selection step of~~ second program selecting, as a program to be executed, a program that is of the same type as the currently executed program and which accepts a channel selection request from a user and performs an operation, in the case where abnormal termination of the currently executed program is detected in said program monitoring ~~step~~; and

~~an execution step of~~ executing, by a processor, the program selected in said first program ~~selecting selection step~~ and, in the case where abnormal termination of the currently executed program is detected in said program monitoring ~~step~~, to execute the program selected in said second program ~~selecting selection step~~.

32. (Currently Amended) A non-transitory recording medium in which a program for executing an execution program is stored, the program causing a computer to execute:

~~a first program selection step of first program selecting~~, as an execution program to be executed, an execution program which is downloaded and then executed;

~~a program monitoring step of program monitoring~~ an operational state of a currently executed execution program;

~~a second program selection step of second program selecting~~, as an execution program to be executed, an execution program that is of the same type as the currently executed execution program and which accepts a channel selection request from a user and performs an operation, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~; and

~~an execution step of executing the execution program selected in said first program selecting selection step~~ and, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~, to execute the execution program selected in said second program selecting selection step.

33. (Currently Amended) A program execution method, comprising:

~~a first program selection step of first program selecting~~, as a program to be executed, a program which is downloaded to a storage and then executed;

~~a program monitoring step of program monitoring~~ an operational state of a currently executed program;

~~a second program selection step of second program selecting~~, as a program to be executed, a program that is of the same type as the currently executed program and which

displays an electronic program guide, in the case where abnormal termination of the currently executed program is detected in said program monitoring ~~step~~; and

~~an execution step of executing, by a processor,~~ the program selected in said first program ~~selecting selection step~~ and, in the case where abnormal termination of the currently executed program is detected in said program monitoring ~~step~~, to execute the program selected in said second program ~~selecting selection step~~.

34. (Currently Amended) A non-transitory recording medium in which a program for executing an execution program is stored, the program causing a computer to execute:

~~a first program selection step of first program~~ selecting, as an execution program to be executed, an execution program which is downloaded and then executed;

~~a program monitoring step of program~~ monitoring an operational state of a currently executed execution program;

~~a second program selection step of second program~~ selecting, as an execution program to be executed, an execution program that is of the same type as the currently executed execution program and which displays an electronic program guide, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~; and

~~an execution step of executing the execution program selected in said first program~~ ~~selecting selection step~~ and, in the case where abnormal termination of the currently executed execution program is detected in said program monitoring ~~step~~, to execute the execution program selected in said second program ~~selecting selection step~~.